

Director's Report

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Director, National Institute of Environmental Health Sciences
and National Toxicology Program

NTP Board of Scientific Counselors Meeting
June 15, 2016



Appropriations

	FY 2015 Omnibus Appropriation	FY 2016 Omnibus Appropriation	FY 2017 President's Request
NIEHS	\$ 667,333,000^{a/}	\$ 693,533,000^{a/}	\$ 693,533,000
NIH (LHHS)	\$30,084,000,000	\$32,084,000,000	\$32,909,000,000
Superfund	\$ 77,349,000	\$ 77,349,000	\$ 77,349,000
NIEHS/DOE Training	\$ 10,000,000	\$ 10,000,000	

a/ Reduced by \$169,000 transfer to the NIH Office of AIDS Research.



Briefings

- **Endometriosis Awareness: Prevalence, Impact and Environmental Dimensions of a Major Women's Health Issue**
 - Linda Birnbaum, NIEHS Director
- **Bisphenol A Briefings**
 - John Bucher, Associate Director, NTP
 - Gwen Collman, DERT Director



Linda Birnbaum



Gwen Collman

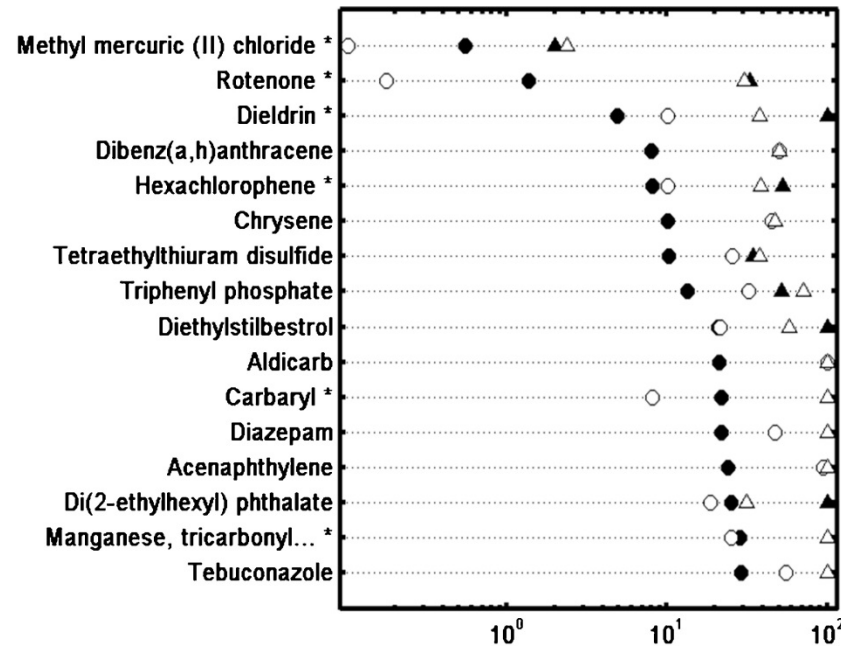


John Bucher



Neurite outgrowth in human induced pluripotent stem cell-derived neurons as a high-throughput screen for developmental neurotoxicity or neurotoxicity. *Ryan KR, Sirenko O, Parham F, Hsieh JH, Cromwell EF, Tice RR, Behl M. Neurotoxicology. 53:271-281. 2016. (SP Goal 1)*

Subchronic exposures to fungal bioaerosols promotes allergic pulmonary inflammation in naive mice. *Nayak AP, Green BJ, Lemons AR, Marshall NB, Goldsmith WT, Kashon ML, Anderson SE, Germolec DR, Beezhold DH. Clin Exp Allergy. 2016. (SP Goal 1, 5)*

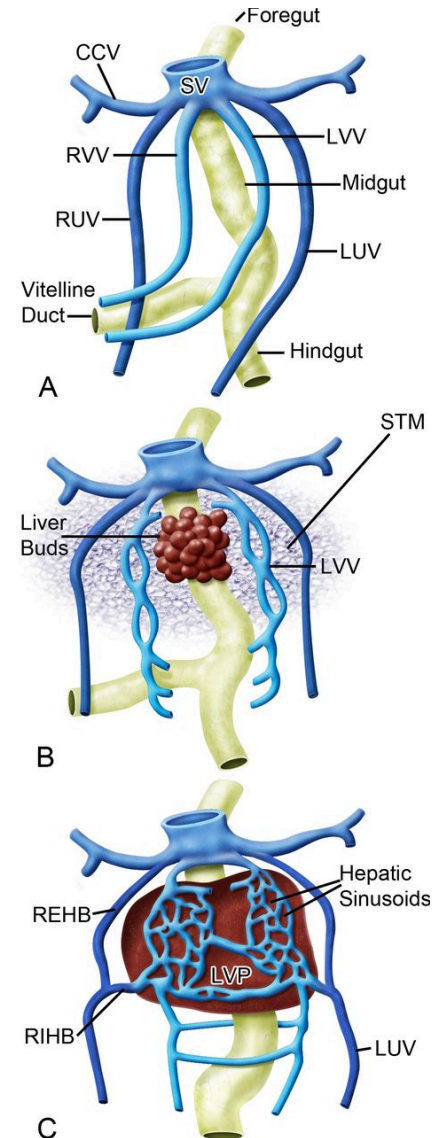
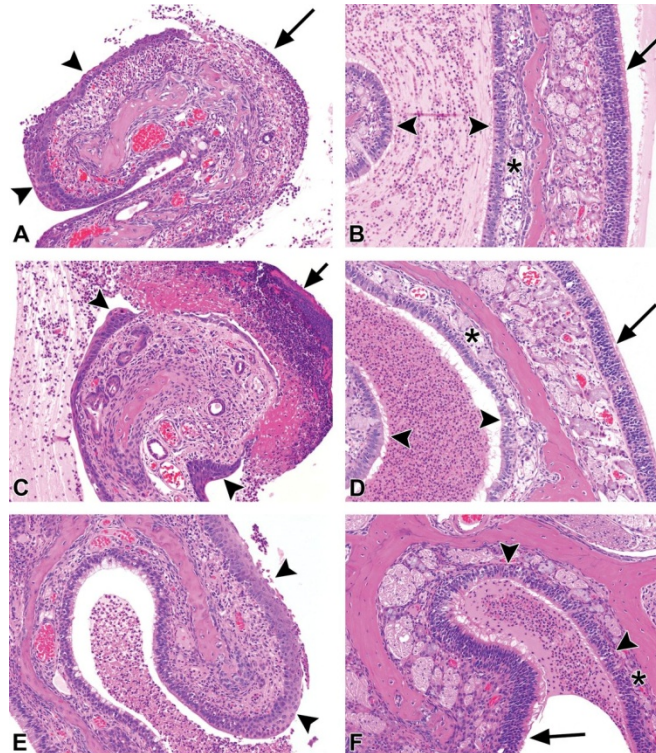




Histology atlas of the developing mouse hepatobiliary hemolymphatic vascular system with emphasis on embryonic days 11.5-18.5 and early postnatal development.

Swartley OM, **Foley JF**, Livingston DP, 3rd, Cullen JM, **Elmore SA**. *Toxicol Pathol*. 2016.

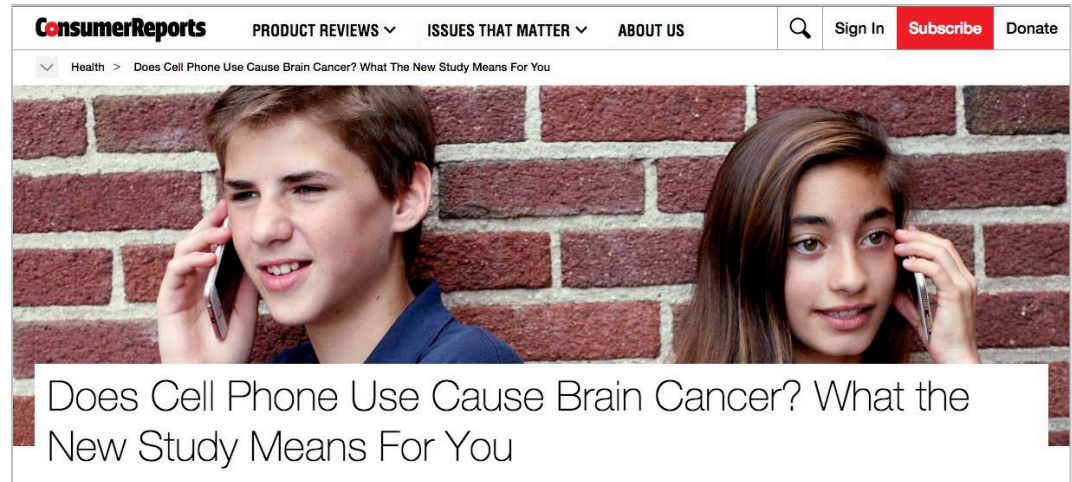
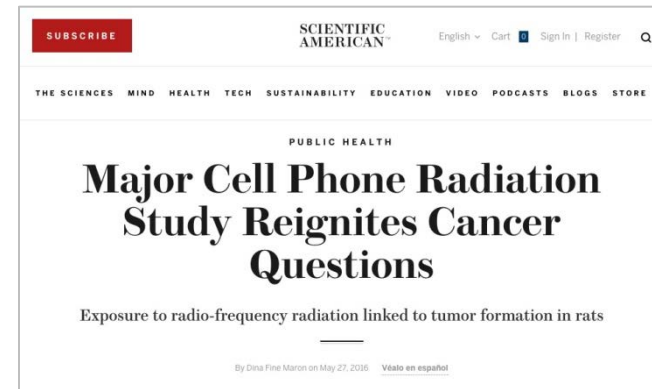
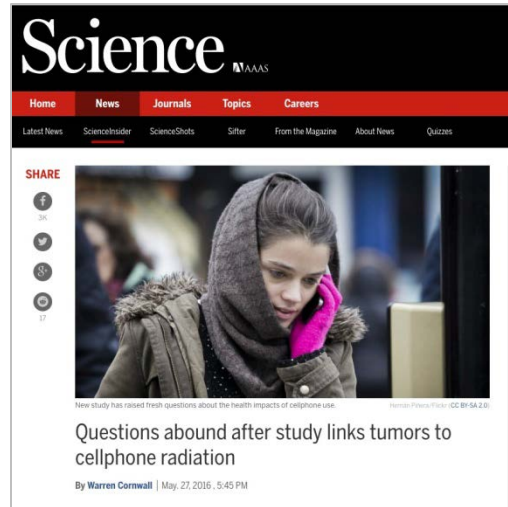
Chemical reactivity and respiratory toxicity of the alpha-diketone flavoring agents: 2,3-butanedione, 2,3-pentanedione, and 2,3-hexanedione. Morgan DL, Jokinen MP, Johnson CL, Price HC, **Gwinn WM**, Bousquet RW, **Flake GP**. *Toxicol Pathol*. 2016.





NTP Cell Phone Studies

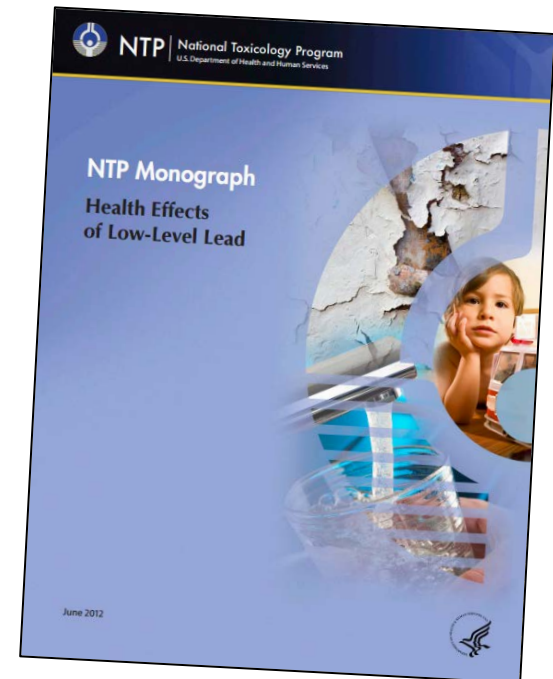
- May 26, NTP released a report on important study findings in rats on cancer and cell phone radiofrequency radiation (RFR).
- The report was made available on the BioRxiv at <http://biorxiv.org/content/early/2016/05/26/055699>.
- NTP held a telephone press conference with reporters on May 27 – about 150 reporters from major news and science outlets joined the call.
- About 1500 stories have appeared in the media on this topic, as well as hundreds of social media posts.





Flint Efforts

- HHS SPiRIT
- Update of Federal Lead Strategy
- NTP Monograph Health Effects of Low-Level Lead
- NIH Disaster Research Response (DR2) Program



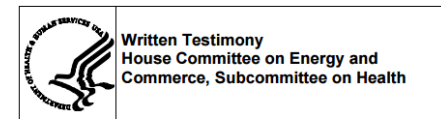


Flint Efforts – Hearing and Briefings

- Research Community
 - NIH IC Directors
 - NIH Scientific Directors
- ASPR Testimony on Federal Response



Nicole Lurie, M.D., M.S.P.H.



Flint, Michigan: A Coordinated Response

Statement of
Nicole Lurie, MD, MSPH
Assistant Secretary For Preparedness and Response



For Release on Delivery
Expected at 10:00 a.m.
April 13, 2016



Flint Efforts – Extramural Support

- Extramural Support to Advance Meritorious Research
 - Shawn McElmurry, Ph.D., Wayne State University – “Rapid Response to Contaminants in Flint Drinking Water”
 - Rita Loch-Caruso of the EHS Core Center, University of Michigan – Michigan Lifestage Environmental Exposures and Disease (M-LEEaD)
- NIEHS Worker Training Program
 - International Chemical Workers Union Council
 - Center for Construction Research and Training; Genesee, Shiawasee, and Thumb Michigan Works Program; and Michigan Building Trades Councils





Special Visitors



Yvonne Maddox, Ph.D.

Vice President for research,
Uniformed Services University of the
Health Sciences

Spirit Lecturer



Janine Clayton, M.D.

Director

NIH Office of Research
on Women's Health



50 Years of Environmental Health Training – Fellowships

- NIEHS routinely ranks at the top among NIH institutes and centers (ICs) on the annual survey of "Best Places to Work" for postdocs
 - Average 100 International Research & Training Fellows at NIEHS in a given year
 - One-year research fellowship for third-year medical students at Duke in environmental medicine
 - NTP training program in toxicological pathways
 - Wide variety of extramural training activities through the Centers, Worker Training Program, and specific training grants





50 Years of Environmental Health Training

NIEHS Investment

- For 2015, DIR Fellow payments totaled about \$8.1M with DNTP totaling about \$963K for a total of about \$9.1M combined.
- The training investment for FY15 (Non SRP) was 19M (6%)
- Total = \$28.1M





50 Years of Environmental Health Training – Local Programs

- NIEHS Scholars Connect
- Summer Internship Program
- North Carolina Association for Biomedical Research Partnership





50 Years of Environmental Health Training – Global Programs

- International Training in Research in Environmental and Occupational Health (ITREOH)
- Research and Training in Global Environmental and Occupational Health (GEOHealth)
 - agricultural health
 - workplace safety
 - occupational health
 - informal work
 - outdoor and indoor air quality
 - electronic waste
 - extractive industries
 - food safety
 - water quality
 - toxic waste
 - climate change health science





Thank you!

Retiring BSC member:

- Iris Udasin, MD





Thank You!

<http://ntp.niehs.nih.gov/>

